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SENT 7/19/91

July 11, 1991

To M. Bailey
G. Bruno
& B. Woods 7/19/91 KEY

MEMORANDUM

SUBJECT: Report of Data Validation for Ridgefield Brick and Tile VOA Samples 91130150, 91130152, 91130154, 91130156, 91130158, 91130160, 91130161, 91130162, 91130164, 91130166 and 91130168.

FROM: Joe Blazevich, Chief QNB
GC/MS Section

TO: Marsha Bailey, Project Officer
Ridgefield Brick and Tile Study

The following is a QA data review of the VOA analysis of water samples collected for the Ridgefield Brick and Tile Study and analyzed at the Manchester Laboratory. This review covers the following samples:

91130150 91130152 91130154 91130156 91130158 91130160
91130161 91130162 91130164 91130166 91130168

The project code for these samples is HWD-127A. The account number is AGDD3A.

Data Qualification

The following comments refer to the laboratory performance in meeting the quality control specifications outlined in the CLP Statement of Work, Organic Analysis, revision 2/88.

I. Holding Times: Acceptable.

All of the samples were held fourteen days or less between collection and analysis. No data qualifiers are required on the basis of holding time data.

II. GC/MS Tuning and Performance: Acceptable

All tuning summaries agreed with the raw data. All bromofluorobenzene ion abundance met criteria. All analyses were preceded by a tune less than 12 hours prior to analysis. No data qualifiers are required on the basis of tuning data.

III. Initial Calibration: Acceptable

An extended seven point calibration curve was constructed for all target compounds on 4/01/91. The calculations of the response factors was checked and the calculation method was correct. All response factors were over 0.05.



No analytes exceeded the 30% RSD limit. No qualifiers are required based on %RSD or response factors.

IV. Continuing Calibration: Acceptable

4/09/91 Samples 01130150, 91130152, 91130154, 91130156, 91130158 and blank ABW1099.

The response factors for all target analytes were above 0.005. Many analytes had a % diff. value greater than the 25% maximum. Since the continuing calibration is used to compute the working response factors, the % diff. does not necessarily indicate a change in the accuracy of the analytical result. Therefore, no additional qualifiers are required on the basis of % diff. and response factors in the continuing standard.

4/10/91 Blank ABW1100, and Samples 91130160, 91130161, 91130162, 91130164, 91130166, 91130168.

The response factors for all target analytes were above 0.005. Many analytes had a % diff. value greater than the 25% maximum. Since the continuing calibration is used to compute the working response factors, the % diff. does not necessarily indicate a change in the accuracy of the analytical result. Therefore, no additional qualifiers are required on the basis of % diff. or response factors in the continuing standard.

4/11/91 Blank ABW1101, and Spikes 91130152Y and 91130152Z.

The response factors for all target analytes were above 0.005. Many analytes had a % diff. value greater than the 25% maximum. Since the continuing calibration is used to compute the working response factors, the % diff. does not necessarily indicate a change in the accuracy of the analytical result. Therefore, no additional qualifiers are required on the basis of % diff. or response factors in the continuing standard.

V. Blanks: Acceptable

A blank was analyzed each day prior to the analysis of samples and matrix spikes. Although some target analytes were detected in the blanks, most were below the reporting limit of 1 ug/L. Since the sample results did not exceed ten times the amounts listed for common VOA contaminants (e.g. methylene chloride, acetone, and 2-butanone) and five times the amounts for the other target analytes, each of these analytes was reported with the appropriate quantitation limit and the qualifier U.

VI. Surrogates: Acceptable

All surrogate recoveries were within specification for all blanks, matrix spikes and samples. No data qualifiers were assigned based on surrogate recovery data.

VII. Matrix Spike and Matrix Spike Duplicate (MS/MSD):

All MS and MSD recoveries and %diff. were acceptable except for 1,1-dichloroethene that gave a %diff of 19 (14 is the limit). Except for this analyte in sample 91130152 which was given the qualifier UJ, no data qualifiers are required based on MS/MSD recoveries.

VIII. Internal Standards Performance: Acceptable

The retention time variations of all internal standards were within 30 seconds of the daily standard, which is acceptable. The %area of all internal standards fell within the specified 50% to 200% of the daily standard. No data qualifiers were required on the basis of internal standards data.

IX. TCL Compound Identification: Acceptable

All TCL compounds' relative retention times were within 0.06 units of the related standards' in the continuing calibration standard. All criteria were met for mass spectral ion matching and abundance matching.

X. Compound Quantitation: Acceptable

Compound quantitation was evaluated correctly. The appropriate internal standards were used. The correct quantitation ions and relative response factors were used. No additional qualifiers are required on the basis of compound quantitation.

XI. Tentatively Identified Compounds: Acceptable

No tentatively identified compounds were detected.

Overall Assessment for the Case

The usefulness of the data is based on the criteria outlined in "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses, (revision 2/88)."

All of the requirements for data qualifiers from the preceding sections were accumulated. Each sample data summary sheet and each compound were checked for positive or negative results. From this the overall need for data qualifiers for each analysis was determined. In cases where more than one of the preceding sections required data qualifiers, the most restrictive qualifier has been added to the data.

In general, all unqualified data can be used without restriction. The usefulness of qualified data should be treated according to the severity of the qualifier. Each qualifier has been defined below. Should questions arise regarding the qualification of data and its relation to the usefulness, the reader is encouraged to contact the Region Ten Laboratory.

DATA QUALIFIERS

- U - The analyte was not detected at or above the reported result.
- J - The analyte was positively identified. The associated numerical result is an estimate.
- EXP - The result is equal to the number before EXP times 10 to the power of the number after EXP. As an example 3EXP6 equals 3×10^6 .
- REJ - The data are unusable for all purposes.
- N - There is evidence the analyte is present in this sample.
- NJ - There is evidence that the analyte is present. The associated numerical result is an estimate.
- UJ - The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
- NAF - Not analyzed for.
- * - The analyte was present in the sample.
(Visual aid to locate detected compounds on the report sheet.)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130150

Description: RB-B15-01

Source: Well (Test/Observation)

Begin Date: 91/03/27 11:15

VOA - PP Scan (GCMS)	Water-Total		VOA - PP Scan (GCMS) *** Continued ***	Water-Total	
	Result	Units		Result	Units
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l
Acetone	12U	ug/l	Toluene	1U	ug/l
Chloroform	1U	ug/l	Chlorobenzene	1U	ug/l
Benzene	1U	ug/l	1,2,4-Trichlorobenzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	1U	ug/l
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l
Chloromethane	1U	ug/l	Sec-Butylbenzene	1U	ug/l
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l
Bromochloromethane	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l
Chloroethane	1U	ug/l	trans-1,2-Dichloroethene+	1U	ug/l
Vinyl Chloride	0.04J*	ug/l	1,3-Dichlorobenzene	1U	ug/l
Methylene Chloride	1U	ug/l	1,1-Dichloropropene	1U	ug/l
Carbon Disulfide	1U	ug/l	2,2-Dichloropropane	1U	ug/l
Bromoform	1U	ug/l	2-Hexanone	1U	ug/l
Bromodichloromethane	1U	ug/l	Ethane, 1,1,1,2-Tetrac+	1U	ug/l
1,1-Dichloroethane	1U	ug/l	Total Xylenes	1U	ug/l
1,1-Dichloroethene	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l
Trichlorofluoromethane	0.1J*	ug/l	trans-1,3-Dichloropropene	1U	ug/l
Methane, Dichlorodiflu+	1U	ug/l	p-Bromofluorobenzene	100	% Recov
1,2-Dichloropropane	1U	ug/l	Surrog: 1-Bromo-2-Fluo+	106	% Recov
2-Butanone	2.6U	ug/l	d8-Toluene	99	% Recov
1,1,2-Trichloroethane	1U	ug/l	d4-1,2-Dichlorobenzene+	NAF	% Recov
Trichloroethene	1U	ug/l	1,2-Dichloroethane-d4 +	101	% Recov
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l			
1,2,3-Trichlorobenzene	1U	ug/l			
Hexachlorobutadiene	1U	ug/l			
Naphthalene	1U	ug/l			
2-Chlorotoluene	1U	ug/l			
1,2-Dichlorobenzene	1U	ug/l			
1,2,4-Trimethylbenzene	1U	ug/l			
1,2-Dibromo-3-chloropr+	1U	ug/l			
1,2,3-Trichloropropene	1U	ug/l			
Tert-Butylbenzene	1U	ug/l			
Isopropylbenzene (Cume+	1U	ug/l			
p-Isopropyltoluene	1U	ug/l			
Ethylbenzene	1U	ug/l			
BENZENE, ETHENYL-(STYR+	1U	ug/l			
BENZENE, PROPYL-	1U	ug/l			
Butylbenzene	1U	ug/l			
4-Chlorotoluene	1U	ug/l			
1,4-Dichlorobenzene	1U	ug/l			
1,2-Dibromoethane (EDB)	1U	ug/l			
1,2-Dichloroethane	0.4J*	ug/l			
4-Methyl-2-Pentanone	1U	ug/l			
1,3,5-Trimethylbenzene	1U	ug/l			

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130152

Description: RB-B4-01

Source: Well (Test/Observation)

Begin Date: 91/03/27 12:30

VOA - PP Scan (GCMS)		Water-Total	VOA - PP Scan (GCMS)		Water-Total	VOA - PP Scan (GCMS)		Water-Total
		Result Units	*** Continued ***		Result Units	*** Continued ***		Result Units
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l	1,1-Dichloroethene	75	% Recov
Acetone	1U	ug/l	Toluene	1U	ug/l	Trichlorofluoromethane	67	% Recov
Chloroform	1U	ug/l	Chlorobenzene	1U	ug/l	Methane, Dichlorodiflu+	58	% Recov
Benzene	1U	ug/l	1,2,4-Trichlorobenzene	1U	ug/l	1,2-Dichloropropane	84	% Recov
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	1U	ug/l	2-Butanone	83	% Recov
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l	1,1,2-Trichloroethane	87	% Recov
Chloromethane	1U	ug/l	Sec-Butylbenzene	1U	ug/l	Trichloroethene	88	% Recov
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l	ETHANE, 1,1,2,2-TETRAC+	88	% Recov
Bromoform	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l	1,2,3-Trichlorobenzene	112	% Recov
Bromodichloromethane	1U	ug/l	trans-1,2-Dichloroethene+	1U	ug/l	Hexachlorobutadiene	90	% Recov
1,1-Dichloroethane	1UJ	ug/l	1,3-Dichlorobenzene	1U	ug/l	Naphthalene	125	% Recov
Trichlorofluoromethane	1U	ug/l	1,1-Dichloropropene	1U	ug/l	2-Chlorotoluene	87	% Recov
Methane, Dichlorodiflu+	1U	ug/l	2,2-Dichloropropane	1U	ug/l	1,2-Dichlorobenzene	87	% Recov
1,2-Dichloropropane	1U	ug/l	2-Hexanone	1U	ug/l	1,2,4-Trimethylbenzene	84	% Recov
2-Butanone	1U	ug/l	Ethane, 1,1,1,2-Tetrac+	1U	ug/l	1,2-Dibromo-3-chloropr+	99	% Recov
1,1,2-Trichloroethane	1U	ug/l	Total Xylenes	1U	ug/l	1,2,3-Trichloropropane	80	% Recov
Trichloroethene	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l	Tert-Butylbenzene	81	% Recov
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l	trans-1,3-Dichloroprop+	1U	ug/l	Isopropylbenzene (Cume+)	80	% Recov
1,2,3-Trichlorobenzene	1U	ug/l	p-Bromofluorobenzene	98	% Recov	p-Isopropyltoluene	81	% Recov
Hexachlorobutadiene	1U	ug/l	Surrog: 1-Bromo-2-Fluo+	111	% Recov	Ethylbenzene	80	% Recov
Naphthalene	1U	ug/l	d8-Toluene	100	% Recov	BENZENE, ETHENYL-(STYR+	80	% Recov
2-Chlorotoluene	1U	ug/l	d4-1,2-Dichlorobenzene+	NAF	% Recov	BENZENE, PROPYL-	82	% Recov
1,2-Dichlorobenzene	1U	ug/l	1,2-Dichloroethane-d4 +	104	% Recov	Butylbenzene	83	% Recov
1,2,4-Trimethylbenzene	1U	ug/l	+-----	+-----	+-----	4-Chlorotoluene	88	% Recov
1,2-Dibromo-3-chloropr+	1U	ug/l	VOA - PP Scan (GCMS)	Water-Total	Matrix Spike #1	1,4-Dichlorobenzene	92	% Recov
1,2,3-Trichloropropane	1U	ug/l		Result Units		1,2-Dibromoethane (EDB)	88	% Recov
Tert-Butylbenzene	1U	ug/l	Carbon Tetrachloride	84	% Recov	1,2-Dichloroethane	48	% Recov
Isopropylbenzene (Cume+)	1U	ug/l	Acetone	150	% Recov	4-Methyl-2-Pentanone	98	% Recov
p-Isopropyltoluene	1U	ug/l	Chloroform	89	% Recov	1,3,5-Trimethylbenzene	81	% Recov
Ethylbenzene	1U	ug/l	Benzene	84	% Recov	Bromobenzene	86	% Recov
BENZENE, ETHENYL-(STYR+	1U	ug/l	1,1,1-Trichloroethane	88	% Recov	Toluene	87	% Recov
BENZENE, PROPYL-	1U	ug/l	Bromomethane	69	% Recov	Chlorobenzene	86	% Recov
Butylbenzene	1U	ug/l	Chloromethane	65	% Recov	1,2,4-Trichlorobenzene	106	% Recov
4-Chlorotoluene	1U	ug/l	Dibromomethane	90	% Recov	Dibromochloromethane	83	% Recov
1,4-Dichlorobenzene	1U	ug/l	Bromochloromethane	86	% Recov	Tetrachloroethene	88	% Recov
1,2-Dibromoethane (EDB)	1U	ug/l	Chloroethane	70	% Recov	Sec-Butylbenzene	78	% Recov
1,2-Dichloroethane	0.8J*	ug/l	Vinyl Chloride	68	% Recov	1,3-Dichloropropane	85	% Recov
4-Methyl-2-Pentanone	1U	ug/l	Methylene Chloride	96	% Recov	Cis-1,2-Dichloroethene	84	% Recov
1,3,5-Trimethylbenzene	1U	ug/l	Carbon Disulfide	68	% Recov	trans-1,2-Dichloroethene+	80	% Recov
			Bromoform	90	% Recov	1,3-Dichlorobenzene	90	% Recov
			Bromodichloromethane	86	% Recov	1,1-Dichloropropene	81	% Recov
			1,1-Dichloroethane	88	% Recov	2,2-Dichloropropane	86	% Recov
						2-Hexanone	90	% Recov
						Ethane, 1,1,1,2-Tetrac+	89	% Recov

(Continued on next page)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130152

Description: RB-B4-01

Source: Well (Test/Observation)

Begin Date: 91/03/27 12:30

VOA - PP Scan (GCMS) Water-Total			VOA - PP Scan (GCMS) Water-Total		
*** Continued ***			*** Continued ***		
Matrix Spike #1	Result	Units	Matrix Spike #2	Result	Units
Total Xylenes	80	% Recov	1,2,3-Trichloropropane	80	% Recov
d8-Toluene	98	% Recov	Tert-Butylbenzene	82	% Recov
cis-1,3-Dichloropropene	79	% Recov	Isopropylbenzene (Cumene)	80	% Recov
trans-1,3-Dichloropropene	78	% Recov	p-Isopropyltoluene	80	% Recov
p-Bromofluorobenzene	99	% Recov	Ethylbenzene	81	% Recov
Surrog: 1-Bromo-2-Fluo+	107	% Recov	BENZENE, ETHENYL-(STYR+)	82	% Recov
d4-1,2-Dichlorobenzene+	NAF	% Recov	BENZENE, PROPYL-	84	% Recov
1,2-Dichloroethane-d4 +	101	% Recov	Butylbenzene	80	% Recov
			4-Chlorotoluene	86	% Recov
			1,4-Dichlorobenzene	90	% Recov
VOA - PP Scan (GCMS)	Water-Total		1,2-Dibromoethane (EDB)	78	% Recov
Matrix Spike #2	Result	Units	1,2-Dichloroethane	45	% Recov
Carbon Tetrachloride	86	% Recov	4-Methyl-2-Pentanone	83	% Recov
Acetone	126	% Recov	1,3,5-Trimethylbenzene	80	% Recov
Chloroform	88	% Recov	Bromobenzene	87	% Recov
Benzene	80	% Recov	Toluene	81	% Recov
1,1,1-Trichloroethane	83	% Recov	Chlorobenzene	86	% Recov
Bromomethane	94	% Recov	1,2,4-Trichlorobenzene	96	% Recov
Chloromethane	80	% Recov	Dibromochloromethane	80	% Recov
Dibromomethane	78	% Recov	Tetrachloroethene	83	% Recov
Bromochloromethane	88	% Recov	Sec-Butylbenzene	80	% Recov
Chloroethane	91	% Recov	1,3-Dichloropropane	78	% Recov
Vinyl Chloride	80	% Recov	Cis-1,2-Dichloroethene	84	% Recov
Methylene Chloride	123	% Recov	trans-1,2-Dichloroethene	90	% Recov
Carbon Disulfide	85	% Recov	1,3-Dichlorobenzene	88	% Recov
Bromoform	84	% Recov	1,1-Dichloropropene	80	% Recov
Bromodichloromethane	82	% Recov	2,2-Dichloropropane	90	% Recov
1,1-Dichloroethane	94	% Recov	2-Hexanone	78	% Recov
1,1-Dichloroethene	90	% Recov	Ethane, 1,1,1,2-Tetrac+	84	% Recov
Trichlorofluoromethane	96	% Recov	Total Xylenes	81	% Recov
Methane, Dichlorodiflu+	37	% Recov	d8-Toluene	96	% Recov
1,2-Dichloropropane	80	% Recov	cis-1,3-Dichloropropene	75	% Recov
2-Butanone	78	% Recov	trans-1,3-Dichloropropene	72	% Recov
1,1,2-Trichloroethane	78	% Recov	p-Bromofluorobenzene	101	% Recov
Trichloroethene	82	% Recov	Surrog: 1-Bromo-2-Fluo+	98	% Recov
ETHANE, 1,1,2,2-TETRAC+	84	% Recov	d4-1,2-Dichlorobenzene+	NAF	% Recov
1,2,3-Trichlorobenzene	102	% Recov	1,2-Dichloroethane-d4 +	98	% Recov
Hexachlorobutadiene	92	% Recov			
Naphthalene	98	% Recov			
2-Chlorotoluene	88	% Recov			
1,2-Dichlorobenzene	88	% Recov			
1,2,4-Trimethylbenzene	83	% Recov			
1,2-Dibromo-3-chloropropene	93	% Recov			

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130154

Description: RB-B10-01

Source: Well (Test/Observation)

Begin Date: 91/03/27 12:45

VOA - PP Scan (GCMS)		Water-Total	VOA - PP Scan (GCMS)		Water-Total
		Result	Units	*** Continued ***	
Carbon Tetrachloride		1U	ug/l		
Acetone		1U	ug/l	Bromobenzene	1U ug/l
Chloroform		1U	ug/l	Toluene	1U ug/l
Benzene		1U	ug/l	Chlorobenzene	1U ug/l
1,1,1-Trichloroethane		1U	ug/l	1,2,4-Trichlorobenzene	1U ug/l
Bromomethane		1U	ug/l	Dibromochloromethane	1U ug/l
Chloromethane	0.05J*	ug/l		Tetrachloroethene	1U ug/l
Dibromomethane		1U	ug/l	Sec-Butylbenzene	1U ug/l
Bromoform		1U	ug/l	1,3-Dichloropropane	1U ug/l
Bromodichloromethane		1U	ug/l	Cis-1,2-Dichloroethane	1U ug/l
1,1-Dichloroethane		1U	ug/l	trans-1,2-Dichloroethene	1U ug/l
1,1-Dichloroethene		1U	ug/l	1,3-Dichlorobenzene	1U ug/l
Trichlorofluoromethane		1U	ug/l	1,1-Dichloropropene	1U ug/l
Methane, Dichlorodiflu+		1U	ug/l	2,2-Dichloropropane	1U ug/l
1,2-Dichloropropane		1U	ug/l	2-Hexanone	1U ug/l
2-Butanone		1U	ug/l	Ethane, 1,1,1,2-Tetra-	1U ug/l
1,1,2-Trichloroethane		1U	ug/l	Total Xylenes	1U ug/l
Trichloroethene		1U	ug/l	cis-1,3-Dichloropropene	1U ug/l
ETHANE, 1,1,2,2-TETRAC+		1U	ug/l	trans-1,3-Dichloropropene	1U ug/l
1,2,3-Trichlorobenzene		1U	ug/l	p-Bromofluorobenzene	96 % Recov
Hexachlorobutadiene		1U	ug/l	Surrog: 1-Bromo-2-Fluo+	120 % Recov
Naphthalene		1U	ug/l	d8-Toluene	100 % Recov
2-Chlorotoluene		1U	ug/l	d4-1,2-Dichlorobenzene+	NAF % Recov
1,2-Dichlorobenzene		1U	ug/l	1,2-Dichloroethane-d4 +	108 % Recov
1,2,4-Triethylbenzene		1U	ug/l		
1,2-Dibromo-3-chloropr+		1U	ug/l		
1,2,3-Trichloropropene		1U	ug/l		
Tert-Butylbenzene		1U	ug/l		
Isopropylbenzene (Cumene)		1U	ug/l		
p-Isopropyltoluene		1U	ug/l		
Ethylbenzene		1U	ug/l		
BENZENE, ETHENYL-(STYR+)		1U	ug/l		
BENZENE, PROPYL-		1U	ug/l		
Butylbenzene		1U	ug/l		
4-Chlorotoluene		1U	ug/l		
1,4-Dichlorobenzene		1U	ug/l		
1,2-Dibromoethane (EDB)		1U	ug/l		
1,2-Dichloroethane	0.2J*	ug/l			
4-Methyl-2-Pentanone		1U	ug/l		
1,3,5-Trimethylbenzene		1U	ug/l		

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130156

Description: RB-B5-01

Source: Well (Test/Observation)

Begin Date: 91/03/27 15:00

VOA - PP Scan (GCMS)			Water-Total			VOA - PP Scan (GCMS)			Water-Total		
	Result	Units		Result	Units		Result	Units		Result	Units
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l						
Acetone	1U	ug/l	Toluene	1U	ug/l						
Chloroform	0.1J*	ug/l	Chlorobenzene	1U	ug/l						
Benzene	1U	ug/l	1,2,4-Trichlorobenzene	1U	ug/l						
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	1U	ug/l						
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l						
Chloromethane	0.1J*	ug/l	Sec-Butylbenzene	1U	ug/l						
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l						
Bromoform	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l						
Chloroethane	1U	ug/l	trans-1,2-Dichloroethene	1U	ug/l						
Vinyl Chloride	1U	ug/l	1,3-Dichlorobenzene	1U	ug/l						
Methylene Chloride	1U	ug/l	1,1-Dichloropropene	1U	ug/l						
Carbon Disulfide	1U	ug/l	2,2-Dichloropropane	1U	ug/l						
Bromoform	1U	ug/l	2-Hexanone	1U	ug/l						
Bromodichloromethane	1U	ug/l	Ethane, 1,1,1,2-Tetrac+	1U	ug/l						
1,1-Dichloroethane	1U	ug/l	Total Xylenes	1U	ug/l						
1,1-Dichloroethene	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l						
Trichlorofluoromethane	1U	ug/l	trans-1,3-Dichloropropene	1U	ug/l						
Methane, Dichlorodiflu+	1U	ug/l	p-Bromofluorobenzene	101	% Recov						
1,2-Dichloropropane	1U	ug/l	Surrog: 1-Bromo-2-Fluo+	118	% Recov						
2-Butanone	1.1U	ug/l	d8-Toluene	101	% Recov						
1,1,2-Trichloroethane	1U	ug/l	d4-1,2-Dichlorobenzene+	NAF	% Recov						
Trichloroethene	1U	ug/l	1,2-Dichloroethane-d4 +	111	% Recov						
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l									
1,2,3-Trichlorobenzene	1U	ug/l									
Hexachlorobutadiene	1U	ug/l									
Naphthalene	1U	ug/l									
2-Chlorotoluene	1U	ug/l									
1,2-Dichlorobenzene	1U	ug/l									
1,2,4-Trimethylbenzene	1U	ug/l									
1,2-Dibromo-3-chloropr+	1U	ug/l									
1,2,3-Trichloropropane	1U	ug/l									
Tert-Butylbenzene	1U	ug/l									
Isopropylbenzene (Cum+	1U	ug/l									
p-Isopropyltoluene	1U	ug/l									
Ethylbenzene	1U	ug/l									
BENZENE, ETHENYL-(STYR+	1U	ug/l									
BENZENE, PROPYL-	1U	ug/l									
Butylbenzene	1U	ug/l									
4-Chlorotoluene	1U	ug/l									
1,4-Dichlorobenzene	1U	ug/l									
1,2-Dibromoethane (EDB)	1U	ug/l									
1,2-Dichloroethane	0.5J*	ug/l									
4-Methyl-2-Pentanone	1U	ug/l									
1,3,5-Trimethylbenzene	1U	ug/l									

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130158

Description: RB-B6-01

Source: Well (Test/Observation)

Begin Date: 91/03/27 15:20

VOA - PP Scan (GCMS)			VOA - PP Scan (GCMS)		
	Water	Total		Water	Total
	Result	Units		Result	Units
*** Continued ***					
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l
Acetone	1U	ug/l	Toluene	1U	ug/l
Chloroform	1U	ug/l	Chlorobenzene	1U	ug/l
Benzene	1U	ug/l	1,2,4-Trichlorobenzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	1U	ug/l
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l
Chloromethane	1U	ug/l	Sec-Butylbenzene	1U	ug/l
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l
Bromochloromethane	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l
Chloroethane	1U	ug/l	trans-1,2-Dichloroethene	1U	ug/l
Vinyl Chloride	1U	ug/l	1,3-Dichlorobenzene	1U	ug/l
Methylene Chloride	1U	ug/l	1,1-Dichloropropene	1U	ug/l
Carbon Disulfide	1.6U	ug/l	2,2-Dichloropropane	1U	ug/l
Bromoform	1U	ug/l	2-Hexanone	1U	ug/l
Bromodichloromethane	1U	ug/l	Ethane, 1,1,1,2-Tetra+	1U	ug/l
1,1-Dichloroethane	1U	ug/l	Total Xylenes	1U	ug/l
1,1-Dichloroethene	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l
Trichlorofluoromethane	1U	ug/l	trans-1,3-Dichloropropene	1U	ug/l
Methane, Dichlorodiflu+	1U	ug/l	p-Bromofluorobenzene	100	% Recov
1,2-Dichloropropane	1U	ug/l	Surrog: 1-Bromo-2-Fluo+	122	% Recov
2-Butanone	1U	ug/l	d8-Toluene	98	% Recov
1,1,2-Trichloroethane	1U	ug/l	d4-1,2-Dichlorobenzene+	NAF	% Recov
Trichloroethene	1U	ug/l	1,2-Dichloroethane-d4 +	111	% Recov
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l			
1,2,3-Trichlorobenzene	1U	ug/l			
Hexachlorobutadiene	1U	ug/l			
Naphthalene	1U	ug/l			
2-Chlorotoluene	1U	ug/l			
1,2-Dichlorobenzene	1U	ug/l			
1,2,4-Trimethylbenzene	1U	ug/l			
1,2-Dibromo-3-chloropr+	1U	ug/l			
1,2,3-Trichloropropane	1U	ug/l			
Tert-Butylbenzene	1U	ug/l			
Isopropylbenzene (Cume+)	1U	ug/l			
p-Isopropyltoluene	1U	ug/l			
Ethylbenzene	1U	ug/l			
BENZENE, ETHENYL-(STYR+	1U	ug/l			
BENZENE, PROPYL-	1U	ug/l			
Butylbenzene	1U	ug/l			
4-Chlorotoluene	1U	ug/l			
1,4-Dichlorobenzene	1U	ug/l			
1,2-Dibromoethane (EDB)	1U	ug/l			
1,2-Dichloroethane	1U	ug/l			
4-Methyl-2-Pentanone	1U	ug/l			
1,3,5-Trimethylbenzene	1U	ug/l			

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130160

Description: RB-B20-01

Source: Well (Test/Observation)

Begin Date: 91/03/27 09:00

VOA - PP Scan (GCMS)	Water-Total		VOA - PP Scan (GCMS) *** Continued ***	Water-Total	
	Result	Units		Result	Units
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l
Acetone	1U	ug/l	Toluene	1U	ug/l
Chloroform	0.04J*	ug/l	Chlorobenzene	1U	ug/l
Benzene	1U	ug/l	1,2,4-Trichlorobenzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	1U	ug/l
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l
Chloromethane	1U	ug/l	Sec-Butylbenzene	1U	ug/l
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l
Bromoform	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l
Bromodichloromethane	1U	ug/l	trans-1,2-Dichloroethene+	1U	ug/l
1,1-Dichloroethane	1U	ug/l	1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloroethene	1U	ug/l	1,1-Dichloropropene	1U	ug/l
Trichlorofluoromethane	1U	ug/l	2,2-Dichloropropane	1U	ug/l
Methane, Dichlorodiflu+	1U	ug/l	2-Hexanone	1U	ug/l
1,2-Dichloropropane	1U	ug/l	Ethane, 1,1,1,2-Tetrac+	1U	ug/l
2-Butanone	1U	ug/l	Total Xylenes	1U	ug/l
1,1,2-Trichloroethane	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l
Trichloroethene	1U	ug/l	trans-1,3-Dichloroprop+	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l	p-Bromofluorobenzene	100	% Recov
1,2,3-Trichlorobenzene	1U	ug/l	Surrog: 1-Bromo-2-Fluo+	89	% Recov
Hexachlorobutadiene	1U	ug/l	d8-Toluene	91	% Recov
Naphthalene	1U	ug/l	d4-1,2-Dichlorobenzene+	NAF	% Recov
2-Chlorotoluene	1U	ug/l	1,2-Dichloroethane-d4 +	95	% Recov
1,2-Dichlorobenzene	1U	ug/l			
1,2,4-Trimethylbenzene	1U	ug/l			
1,2-Dibromo-3-chloropr+	1U	ug/l			
1,2,3-Trichloropropene	1U	ug/l			
Tert-Butylbenzene	1U	ug/l			
Isopropylbenzene (Cume+	1U	ug/l			
p-Isopropyltoluene	1U	ug/l			
Ethylbenzene	1U	ug/l			
BENZENE, ETHENYL-(STYR+	1U	ug/l			
BENZENE, PROPYL-	1U	ug/l			
Butylbenzene	1U	ug/l			
4-Chlorotoluene	1U	ug/l			
1,4-Dichlorobenzene	1U	ug/l			
1,2-Dibromoethane (EDB)	1U	ug/l			
1,2-Dichloroethane	1U	ug/l			
4-Methyl-2-Pentanone	1U	ug/l			
1,3,5-Trimethylbenzene	1U	ug/l			

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130161

Description: RB-B25-01

Source: Well (Test/Observation)

Begin Date: 91/03/28 12:00

VOA - PP Scan (GCMS)	Water-Total		VOA - PP Scan (GCMS) *** Continued ***	Water-Total	
	Result	Units		Result	Units
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l
Acetone	1U	ug/l	Toluene	1U	ug/l
Chloroform	4.6 *	ug/l	Chlorobenzene	1U	ug/l
Benzene	1U	ug/l	1,2,4-Trichlorobenzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	0.08J*	ug/l
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l
Chloromethane	1U	ug/l	Sec-Butylbenzene	1U	ug/l
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l
Bromoform	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l
Bromodichloromethane	1U	ug/l	trans-1,2-Dichloroethene+	1U	ug/l
1,1-Dichloroethane	1U	ug/l	1,3-Dichlorobenzene	1U	ug/l
1,1-Dichloroethene	1U	ug/l	1,1-Dichloropropene	1U	ug/l
Trichlorofluoromethane	1U	ug/l	2,2-Dichloropropane	1U	ug/l
Methane, Dichlorodiflu+	1U	ug/l	2-Hexanone	1U	ug/l
1,2-Dichloropropene	1U	ug/l	Ethane, 1,1,1,2-Tetrac+	1U	ug/l
2-Butanone	1U	ug/l	Total Xylenes	1U	ug/l
1,1,2-Trichloroethane	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l
Trichloroethene	1U	ug/l	trans-1,3-Dichloroprop+	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l	p-Bromofluorobenzene	90	% Recov
1,2,3-Trichlorobenzene	1U	ug/l	Surrog: 1-Bromo-2-Fluo+	97	% Recov
Hexachlorobutadiene	1U	ug/l	d8-Toluene	90	% Recov
Naphthalene	1U	ug/l	d4-1,2-Dichlorobenzene+	NAF	% Recov
2-Chlorotoluene	1U	ug/l	1,2-Dichloroethane-d4 +	88	% Recov
1,2-Dichlorobenzene	1U	ug/l			
1,2,4-Trimethylbenzene	1U	ug/l			
1,2-Dibromo-3-chloropr+	1U	ug/l			
1,2,3-Trichloropropene	1U	ug/l			
Tert-Butylbenzene	1U	ug/l			
Isopropylbenzene (Cume+	1U	ug/l			
p-Isopropyltoluene	1U	ug/l			
Ethylbenzene	1U	ug/l			
BENZENE, ETHENYL-(STYR+	1U	ug/l			
BENZENE, PROPYL-	1U	ug/l			
Butylbenzene	1U	ug/l			
4-Chlorotoluene	1U	ug/l			
1,4-Dichlorobenzene	1U	ug/l			
1,2-Dibromoethane (EDB)	1U	ug/l			
1,2-Dichloroethane	1U	ug/l			
4-Methyl-2-Pentanone	1U	ug/l			
1,3,5-Trimethylbenzene	1U	ug/l			

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130162

Description: RB-TD1-01

Source: Well (Test/Observation)

Begin Date: 91/03/28 09:45

VOA - PP Scan (GCMS)			Water-Total			VOA - PP Scan (GCMS)			Water-Total		
	Result	Units		Result	Units		*** Continued ***		Result	Units	
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l						
Acetone	1U	ug/l	Toluene	1U	ug/l						
Chloroform	1U	ug/l	Chlorobenzene	1U	ug/l						
Benzene	1U	ug/l	1,2,4-Trichlorobenzene	1U	ug/l						
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	1U	ug/l						
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l						
Chloromethane	1U	ug/l	Sec-Butylbenzene	1U	ug/l						
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l						
Bromochloromethane	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l						
Chloroethane	0.1J*	ug/l	trans-1,2-Dichloroethene	1U	ug/l						
Vinyl Chloride	1U	ug/l	1,3-Dichlorobenzene	1U	ug/l						
Methylene Chloride	1U	ug/l	1,1-Dichloropropene	1U	ug/l						
Carbon Disulfide	1U	ug/l	2,2-Dichloropropane	1U	ug/l						
Bromoform	1U	ug/l	2-Hexanone	1U	ug/l						
Bromodichloromethane	1U	ug/l	Ethane, 1,1,1,2-Tetrac+	1U	ug/l						
1,1-Dichloroethane	0.2J*	ug/l	Total Xylenes	1U	ug/l						
1,1-Dichloroethene	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l						
Trichlorofluoromethane	1U	ug/l	trans-1,3-Dichloroprop	1U	ug/l						
Methane, Dichlorodiflu+	1U	ug/l	p-Bromofluorobenzene	93	% Recov						
1,2-Dichloropropane	1U	ug/l	Surrog: 1-Bromo-2-Fluo+	111	% Recov						
2-Butanone	1.5U	ug/l	d8-Toluene	92	% Recov						
1,1,2-Trichloroethane	1U	ug/l	1,2-Dichloroethane-d4 +	104	% Recov						
Trichloroethene	1U	ug/l									
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l									
1,2,3-Trichlorobenzene	1U	ug/l									
Hexachlorobutadiene	1U	ug/l									
Naphthalene	1U	ug/l									
2-Chlorotoluene	1U	ug/l									
1,2-Dichlorobenzene	1U	ug/l									
1,2,4-Trimethylbenzene	1U	ug/l									
1,2-Dibromo-3-chloropr+	1U	ug/l									
1,2,3-Trichloropropane	1U	ug/l									
Tert-Butylbenzene	1U	ug/l									
Isopropylbenzene (Cume+	1U	ug/l									
p-Isopropyltoluene	1U	ug/l									
Ethylbenzene	1U	ug/l									
BENZENE, ETHENYL-(STYR+	1U	ug/l									
BENZENE, PROPYL-	1U	ug/l									
Butylbenzene	1U	ug/l									
4-Chlorotoluene	1U	ug/l									
1,4-Dichlorobenzene	1U	ug/l									
1,2-Dibromoethane (EDB)	1U	ug/l									
1,2-Dichloroethane	1.4 *	ug/l									
4-Methyl-2-Pentanone	1U	ug/l									
1,3,5-Trimethylbenzene	1U	ug/l									

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130164

Description: RB-TD2-01

Source: Well (Test/Observation)

Begin Date: 91/03/28 10:40

VOA - PP Scan (GCMS)	Water-Total		VOA - PP Scan (GCMS) *** Continued ***	Water-Total	
	Result	Units		Result	Units
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l
Acetone	1U	ug/l	Toluene	1U	ug/l
Chloroform	1U	ug/l	Chlorobenzene	1U	ug/l
Benzene	1U	ug/l	1,2,4-Trichlorobenzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	1U	ug/l
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l
Chloromethane	1U	ug/l	Sec-Butylbenzene	1U	ug/l
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l
Bromochloromethane	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l
Chloroethane	1U	ug/l	trans-1,2-Dichloroethene	1U	ug/l
Vinyl Chloride	1U	ug/l	1,3-Dichlorobenzene	1U	ug/l
Methylene Chloride	1U	ug/l	1,1-Dichloropropene	1U	ug/l
Carbon Disulfide	1U	ug/l	2,2-Dichloropropane	1U	ug/l
Bromoform	1U	ug/l	2-Hexanone	1U	ug/l
Bromodichloromethane	1U	ug/l	Ethane, 1,1,1,2-Tetrac+	1U	ug/l
1,1-Dichloroethane	1U	ug/l	Total Xylenes	1U	ug/l
1,1-Dichloroethene	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l
Trichlorofluoromethane	1U	ug/l	trans-1,3-Dichloropropene	1U	ug/l
Methane, Dichlorodiflu+	1U	ug/l	p-Bromofluorobenzene	91	% Recov
1,2-Dichloropropane	1U	ug/l	Surrog: 1-Bromo-2-Fluo+	107	% Recov
2-Butanone	1.2U	ug/l	d8-Toluene	91	% Recov
1,1,2-Trichloroethane	1U	ug/l	d4-1,2-Dichlorobenzene+	NAF	% Recov
Trichloroethene	1U	ug/l	1,2-Dichloroethane-d4 +	96	% Recov
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l			
1,2,3-Trichlorobenzene	1U	ug/l			
Hexachlorobutadiene	1U	ug/l			
Naphthalene	1U	ug/l			
2-Chlorotoluene	1U	ug/l			
1,2-Dichlorobenzene	1U	ug/l			
1,2,4-Trimethylbenzene	1U	ug/l			
1,2-Dibromo-3-chloropr+	1U	ug/l			
1,2,3-Trichloropropene	1U	ug/l			
Tert-Butylbenzene	1U	ug/l			
Isopropylbenzene (Cume+)	1U	ug/l			
p-Isopropyltoluene	1U	ug/l			
Ethylbenzene	1U	ug/l			
BENZENE, ETHENYL-(STYR+	1U	ug/l			
BENZENE, PROPYL-	1U	ug/l			
Butylbenzene	1U	ug/l			
4-Chlorotoluene	1U	ug/l			
1,4-Dichlorobenzene	1U	ug/l			
1,2-Dibromoethane (EDB)	1U	ug/l			
1,2-Dichloroethane	0.4J*	ug/l			
4-Methyl-2-Pentanone	1U	ug/l			
1,3,5-Trimethylbenzene	1U	ug/l			

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130166

Description: RB-TD10-01

Source: Well (Test/Observation)

Begin Date: 91/03/28 09:55

VOA - PP Scan (GCMS)		Water-Total	VOA - PP Scan (GCMS)		Water-Total
		Result Units	*** Continued ***		Result Units
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l
Acetone	1U	ug/l	Toluene	1U	ug/l
Chloroform	1U	ug/l	Chlorobenzene	1U	ug/l
Benzene	1U	ug/l	1,2,4-Trichlorobenzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	1U	ug/l
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l
Chloromethane	1U	ug/l	Sec-Butylbenzene	1U	ug/l
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l
Bromoform	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l
Vinyl Chloride	0.1J*	ug/l	trans-1,2-Dichloroethene	1U	ug/l
Methylene Chloride	1U	ug/l	1,3-Dichlorobenzene	1U	ug/l
Carbon Disulfide	1U	ug/l	1,1-Dichloropropene	1U	ug/l
Bromoform	1U	ug/l	2,2-Dichloropropane	1U	ug/l
Bromodichloromethane	1U	ug/l	2-Hexanone	1U	ug/l
1,1-Dichloroethane	1U	ug/l	Ethane, 1,1,1,2-Tetra-	1U	ug/l
1,1-Dichloroethene	1U	ug/l	Total Xylenes	1U	ug/l
Trichlorofluoromethane	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l
Methane, Dichlorodiflu+	1U	ug/l	trans-1,3-Dichloroprop-	1U	ug/l
1,2-Dichloropropane	1U	ug/l	p-Bromofluorobenzene	94	% Recov
2-Butanone	1U	ug/l	Surrog: 1-Bromo-2-Fluo+	107	% Recov
1,1,2-Trichloroethane	1U	ug/l	d8-Toluene	91	% Recov
Trichloroethene	1U	ug/l	d4-1,2-Dichlorobenzene+	NAF	% Recov
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l	1,2-Dichloroethane-d4 +	96	% Recov
1,2,3-Trichlorobenzene	1U	ug/l			
Hexachlorobutadiene	1U	ug/l			
Naphthalene	1U	ug/l			
2-Chlorotoluene	1U	ug/l			
1,2-Dichlorobenzene	1U	ug/l			
1,2,4-Trimethylbenzene	1U	ug/l			
1,2-Dibromo-3-chloropr+	1U	ug/l			
1,2,3-Trichloropropene	1U	ug/l			
Tert-Butylbenzene	1U	ug/l			
Isopropylbenzene (Cume+)	1U	ug/l			
p-Isopropyltoluene	1U	ug/l			
Ethylbenzene	1U	ug/l			
BENZENE, ETHENYL-(STYR+	1U	ug/l			
BENZENE, PROPYL-	1U	ug/l			
Butylbenzene	1U	ug/l			
4-Chlorotoluene	1U	ug/l			
1,4-Dichlorobenzene	1U	ug/l			
1,2-Dibromoethane (EDB)	1U	ug/l			
1,2-Dichloroethane	0.4J*	ug/l			
4-Methyl-2-Pentanone	1U	ug/l			
1,3,5-Trimethylbenzene	1U	ug/l			

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Laboratory: EPA, Manchester

Sample No: 91 130168

Description: RB-TD15-01

Source: Well (Test/Observation)

Begin Date: 91/03/28 11:25

VOA - PP Scan (GCMS)	Water-Total		VOA - PP Scan (GCMS) *** Continued ***	Water-Total	
	Result	Units		Result	Units
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l
Acetone	8.5U	ug/l	Toluene	0.5J*	ug/l
Chloroform	1U	ug/l	Chlorobenzene	1U	ug/l
Benzene	1U	ug/l	1,2,4-Trichlorobenzene	1U	ug/l
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	1U	ug/l
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l
Chloromethane	1U	ug/l	Sec-Butylbenzene	1U	ug/l
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l
Bromochloromethane	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l
Chloroethane	1U	ug/l	trans-1,2-Dichloroethene	1U	ug/l
Vinyl Chloride	1U	ug/l	1,3-Dichlorobenzene	1U	ug/l
Methylene Chloride	1U	ug/l	1,1-Dichloropropene	1U	ug/l
Carbon Disulfide	1U	ug/l	2,2-Dichloropropane	1U	ug/l
Bromoform	1U	ug/l	2-Hexanone	1U	ug/l
Bromodichloromethane	1U	ug/l	Ethane, 1,1,1,2-Tetrac+	1U	ug/l
1,1-Dichloroethane	1U	ug/l	Total Xylenes	1U	ug/l
1,1-Dichloroethene	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l
Trichlorofluoromethane	1U	ug/l	trans-1,3-Dichloropropene	1U	ug/l
Methane, Dichlorodiflu+	1U	ug/l	p-Bromofluorobenzene	93	% Recov
1,2-Dichloropropene	1U	ug/l	Surrog: 1-Bromo-2-Fluo+	108	% Recov
2-Butanone	2.9U	ug/l	d8-Toluene	93	% Recov
1,1,2-Trichloroethane	1U	ug/l	d4-1,2-Dichlorobenzene	NAF	% Recov
Trichloroethene	1U	ug/l	1,2-Dichloroethane-d4	96	% Recov
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l			
1,2,3-Trichlorobenzene	1U	ug/l			
Hexachlorobutadiene	1U	ug/l			
Naphthalene	1U	ug/l			
2-Chlorotoluene	1U	ug/l			
1,2-Dichlorobenzene	1U	ug/l			
1,2,4-Trimethylbenzene	1U	ug/l			
1,2-Dibromo-3-chloropr+	1U	ug/l			
1,2,3-Trichloropropene	1U	ug/l			
Tert-Butylbenzene	1U	ug/l			
Isopropylbenzene (Cume+)	1U	ug/l			
p-Isopropyltoluene	1U	ug/l			
Ethylbenzene	1U	ug/l			
BENZENE, ETHENYL-(STYR+	1U	ug/l			
BENZENE, PROPYL-	1U	ug/l			
Butylbenzene	1U	ug/l			
4-Chlorotoluene	1U	ug/l			
1,4-Dichlorobenzene	1U	ug/l			
1,2-Dibromoethane (EDB)	1U	ug/l			
1,2-Dichloroethane	0.6J*	ug/l			
4-Methyl-2-Pentanone	1U	ug/l			
1,3,5-Trimethylbenzene	1U	ug/l			

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Blank ID: BW1099

VOA - PP Scan (GCMS)	Water-Total		VOA - PP Scan (GCMS) *** Continued ***	Water-Total	
	Blank #1	Result Units		Blank #1	Result Units
Carbon Tetrachloride	1U	ug/l	Bromobenzene	1U	ug/l
Acetone	4.8 *	ug/l	Toluene	1U	ug/l
Chloroform	1U	ug/l	Chlorobenzene	1U	ug/l
Benzene	0.03J*	ug/l	1,2,4-Trichlorobenzene	0.06J*	ug/l
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane	1U	ug/l
Bromomethane	1U	ug/l	Tetrachloroethene	1U	ug/l
Chloromethane	1U	ug/l	Sec-Butylbenzene	1U	ug/l
Dibromomethane	1U	ug/l	1,3-Dichloropropane	1U	ug/l
Bromoform	1U	ug/l	Cis-1,2-Dichloroethene	1U	ug/l
Bromodichloromethane	1U	ug/l	trans-1,2-Dichloroethene	1U	ug/l
1,1-Dichloroethane	1U	ug/l	1,3-Dichlorobenzene	0.03J*	ug/l
1,1-Dichloroethene	1U	ug/l	1,1-Dichloropropene	1U	ug/l
Trichlorofluoromethane	1U	ug/l	2,2-Dichloropropane	1U	ug/l
Methane, Dichlorodiflu+	1U	ug/l	2-Hexanone	1U	ug/l
1,2-Dichloropropane	1U	ug/l	Ethane, 1,1,1,2-Tetrac+	1U	ug/l
2-Butanone	0.6J*	ug/l	Total Xylenes	0.02J*	ug/l
1,1,2-Trichloroethane	1U	ug/l	cis-1,3-Dichloropropene	1U	ug/l
Trichloroethene	1U	ug/l	trans-1,3-Dichloroprop+	1U	ug/l
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l	p-Bromofluorobenzene	101	% Recov
1,2,3-Trichlorobenzene	0.07J*	ug/l	Surrog: 1-Bromo-2-Fluo+	92	% Recov
Hexachlorobutadiene	1U	ug/l	d8-Toluene	96	% Recov
Naphthalene	1U	ug/l	d4-1,2-Dichlorobenzene+	NAF	% Recov
2-Chlorotoluene	1U	ug/l	1,2-Dichloroethane-d4 +	97	% Recov
1,2-Dichlorobenzene	1U	ug/l			
1,2,4-Trimethylbenzene	1U	ug/l			
1,2-Dibromo-3-chloropr+	1U	ug/l			
1,2,3-Trichloropropane	1U	ug/l			
Tert-Butylbenzene	1U	ug/l			
Isopropylbenzene (Cumene)	1U	ug/l			
p-Isopropyltoluene	1U	ug/l			
Ethylbenzene	1U	ug/l			
BENZENE, ETHENYL-(STYR+)	1U	ug/l			
BENZENE, PROPYL-	1U	ug/l			
Butylbenzene	1U	ug/l			
4-Chlorotoluene	1U	ug/l			
1,4-Dichlorobenzene	1U	ug/l			
1,2-Dibromoethane (EDB)	1U	ug/l			
1,2-Dichloroethane	1U	ug/l			
4-Methyl-2-Pentanone	1U	ug/l			
1,3,5-Trimethylbenzene	1U	ug/l			

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Blank ID: BW1100

VOA - PP Scan (GCMS)		Water-Total		VOA - PP Scan (GCMS)		Water-Total	
	Result	Units		Blank #2	*** Continued ***	Result	Units
Carbon Tetrachloride	1U	ug/l	Bromobenzene		1U	ug/l	
Acetone	3.8 *	ug/l	Toluene		0.02J*	ug/l	
Chloroform	1U	ug/l	Chlorobenzene		1U	ug/l	
Benzene	1U	ug/l	1,2,4-Trichlorobenzene		0.05J*	ug/l	
1,1,1-Trichloroethane	1U	ug/l	Dibromochloromethane		1U	ug/l	
Bromomethane	1U	ug/l	Tetrachloroethene		1U	ug/l	
Chloromethane	1U	ug/l	Sec-Butylbenzene		0.01J*	ug/l	
Dibromomethane	1U	ug/l	1,3-Dichloropropane		1U	ug/l	
Bromochloromethane	1U	ug/l	Cis-1,2-Dichloroethene		1U	ug/l	
Chloroethane	1U	ug/l	trans-1,2-Dichloroethene+		1U	ug/l	
Vinyl Chloride	1U	ug/l	1,3-Dichlorobenzene		0.03J*	ug/l	
Methylene Chloride	5.6 *	ug/l	1,1-Dichloropropene		1U	ug/l	
Carbon Disulfide	0.1J*	ug/l	2,2-Dichloropropane		1U	ug/l	
Bromoform	1U	ug/l	2-Hexanone		1U	ug/l	
Bromodichloromethane	1U	ug/l	Ethane, 1,1,1,2-Tetrac+		1U	ug/l	
1,1-Dichloroethane	1U	ug/l	Total Xylenes		1U	ug/l	
1,1-Dichloroethene	1U	ug/l	cis-1,3-Dichloropropene		1U	ug/l	
Trichlorofluoromethane	1U	ug/l	trans-1,3-Dichloroprop+		1U	ug/l	
Methane, Dichlorodiflu+	1U	ug/l	p-Bromofluorobenzene		92	% Recov	
1,2-Dichloropropane	1U	ug/l	Surrog: 1-Bromo-2-Fluo+		104	% Recov	
2-Butanone	0.9J*	ug/l	d8-Toluene		91	% Recov	
1,1,2-Trichloroethane	1U	ug/l	d4-1,2-Dichlorobenzene+		NAF	% Recov	
Trichloroethene	1U	ug/l	1,2-Dichloroethane-d4 +		98	% Recov	
ETHANE, 1,1,2,2-TETRAC+	1U	ug/l					
1,2,3-Trichlorobenzene	0.07J*	ug/l					
Hexachlorobutadiene	1U	ug/l					
Naphthalene	1U	ug/l					
2-Chlorotoluene	1U	ug/l					
1,2-Dichlorobenzene	0.04J*	ug/l					
1,2,4-Trimethylbenzene	0.02J*	ug/l					
1,2-Dibromo-3-chloropr+	1U	ug/l					
1,2,3-Trichloropropane	1U	ug/l					
Tert-Butylbenzene	1U	ug/l					
Isopropylbenzene (Cumene)	1U	ug/l					
p-Isopropyltoluene	1U	ug/l					
Ethylbenzene	1U	ug/l					
BENZENE, ETHENYL-(STYR+)	1U	ug/l					
BENZENE, PROPYL-	1U	ug/l					
Butylbenzene	0.02J*	ug/l					
4-Chlorotoluene	1U	ug/l					
1,4-Dichlorobenzene	1U	ug/l					
1,2-Dibromoethane (EDB)	1U	ug/l					
1,2-Dichloroethane	1U	ug/l					
4-Methyl-2-Pentanone	1U	ug/l					
1,3,5-Trimethylbenzene	0.01J*	ug/l					

(Sample Complete)

Project: HWD-127A RIDGEFIELD BRICK AND TILE

Officer: MLB

Account: AGDD3A

Blank ID: BW1101

VOA - PP Scan (GCMS)		Water-Total	VOA - PP Scan (GCMS)		Water-Total
Blank #3	Result	Units	*** Continued ***		
Carbon Tetrachloride	0.5U	ug/l	Blank #3	Result	Units
Acetone	8 *	ug/l	Bromobenzene		0.5U ug/l
Chloroform	0.5U	ug/l	Toluene		0.5U ug/l
Benzene	0.5U	ug/l	Chlorobenzene		0.5U ug/l
1,1,1-Trichloroethane	0.5U	ug/l	1,2,4-Trichlorobenzene		0.3J* ug/l
Bromomethane	0.5U	ug/l	Dibromochloromethane		0.5U ug/l
Chloromethane	0.5U	ug/l	Tetrachloroethene		0.5U ug/l
Dibromomethane	0.5U	ug/l	Sec-Butylbenzene		0.5U ug/l
Bromochloromethane	0.5U	ug/l	1,3-Dichloropropane		0.5U ug/l
Chloroethane	0.5U	ug/l	Cis-1,2-Dichloroethene		0.5U ug/l
Vinyl Chloride	0.5U	ug/l	trans-1,2-Dichloroethene		0.5U ug/l
Methylene Chloride	2 *	ug/l	1,3-Dichlorobenzene		0.5U ug/l
Carbon Disulfide	0.5U	ug/l	1,1-Dichloropropene		0.5U ug/l
Bromoform	0.5U	ug/l	2,2-Dichloropropene		0.5U ug/l
Bromodichloromethane	0.5U	ug/l	2-Hexanone		0.5U ug/l
1,1-Dichloroethane	0.5U	ug/l	Ethane, 1,1,1,2-Tetrac+		0.5U ug/l
1,1-Dichloroethene	0.5U	ug/l	Total Xylenes		0.5U ug/l
Trichlorofluoromethane	0.5U	ug/l	cis-1,3-Dichloropropene		0.5U ug/l
Methane, Dichlorodiflu+	0.5U	ug/l	trans-1,3-Dichloroprop+		0.5U ug/l
1,2-Dichloropropene	0.5U	ug/l	p-Bromofluorobenzene	98	% Recov
2-Butanone	4 *	ug/l	Surrog: 1-Bromo-2-Fluo+	91	% Recov
1,1,2-Trichloroethane	0.5U	ug/l	d8-Toluene	94	% Recov
Trichloroethene	0.5U	ug/l	d4-1,2-Dichlorobenzene+	NAF	% Recov
ETHANE, 1,1,2,2-TETRAC+	0.5U	ug/l	1,2-Dichloroethane-d4 +	98	% Recov
1,2,3-Trichlorobenzene	0.3J*	ug/l			
Hexachlorobutadiene	0.5U	ug/l			
Naphthalene	0.4J*	ug/l			
2-Chlorotoluene	0.5U	ug/l			
1,2-Dichlorobenzene	0.5U	ug/l			
1,2,4-Trimethylbenzene	0.5U	ug/l			
1,2-Dibromo-3-chloropr+	0.5U	ug/l			
1,2,3-Trichloropropene	0.5U	ug/l			
Tert-Butylbenzene	0.5U	ug/l			
Isopropylbenzene (Cumene)	0.5U	ug/l			
p-Isopropyltoluene	0.5U	ug/l			
Ethylbenzene	0.5U	ug/l			
BENZENE, ETHENYL-(STYR+)	0.5U	ug/l			
BENZENE, PROPYL-	0.5U	ug/l			
Butylbenzene	0.5U	ug/l			
4-Chlorotoluene	0.5U	ug/l			
1,4-Dichlorobenzene	0.5U	ug/l			
1,2-Dibromoethane (EDB)	0.5U	ug/l			
1,2-Dichloroethane	0.5U	ug/l			
4-Methyl-2-Pentanone	0.5U	ug/l			
1,3,5-Trimethylbenzene	0.5U	ug/l			

(Sample Complete)